OCT 2 4 2005 WILL OCT 2 4 2005 WILL SPICATE FRANKING

REPLACEMENT SHEET

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170

REPEATING STEPS (140), (150) AND (160) FOR EACH SET OF WEIGHTS PROVIDED IN STEP (130) TO DETERMINE A PLULARITY OF CORRELATION FACTORS R;

180-

RANKING SAID PLURALITY OF CORRELATION FACTORS R, WHEREIN A PARTICULAR CORRELATION FACTOR OF SAID PLURALITY OF CORRELATION FACTORS HAVING A PARTICULAR CORRELATION VALUE CLOSEST TO 1 REPRESENTS A BEST RANKING OF THE RESPECTIVE COMBINED METRICS IN STEP (140) FOR EACH SET OF WEIGHTS;

190

PROVIDING IMAGE QUALITY INFORMATION TO AT LEAST ONE OF A SYSTEM OPTIMIZER AND THE VIDEO PROCESSING MODULE AS TO THE BEST RANKING OF THE RESPECTIVE COMBINED METRICS OBTAINED IN STEP (i) TO PROVIDE A BEST PERCEPTUAL IMAGE QUALITY

FIG. 1B

WHEN A PREDETERMINED NUMBER OF SETS OF METRICS = n, THE QUADRATIC MODEL TO OBTAIN THE OBJECTIVE EVALUATION F IS:

$$F = (\sum_{i=1}^{n} w_i x_i)^2$$
, WHEREIN "n" IS A NON-ZERO VALUE.

FIG. 1C

WHEN A NUMBER OF THE SET OF METRICS = 4, THEN THE QUADRATIC MODEL TO OBTAIN THE OBJECTIVE EVALUATION F IS:

$$F = w_1 x_1^2 + w_2 x_2^2 + w_3 x_3^2 + w_4 x_4^2 + w_5 x_1 x_2 + w_6 x_1 x_3 + w_7 x_1 x_4 + w_8 x_2 x_3 + w_9 x_2 x_4 + w_{10} x_3 x_4$$

FIG. 1D